

**AN ANTENNA RADIATOR ASSEMBLY AND RADIO
COMMUNICATIONS ASSEMBLY**

ABSTRACT OF THE DISCLOSURE

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An antenna radiator assembly (2) and radio communications assembly (1) comprising a circuit board (5) formed from dielectric layers dielectric layers (21, 22) supporting electrical conductors. The electrical conductors include a feed point conductive trace (23) and conductive sheets (7, 24) comprising a ground plane. An antenna radiator element (8) is spaced from the circuit board (5) and when viewed in plan view there is an overlapping area (25) where most of a surface area of the antenna radiator element (8) overlaps a surface area of the circuit board (26) thereby forming a sandwiched dielectric region (25). A feed point connector (11) couples the antenna radiator element (8) to the feed point conductive trace (23) and a ground connector (10) couples the antenna radiator element (8) to the ground plane. The circuit board dielectric layers (21, 22) in the sandwiched dielectric region (25) are disposed between the antenna radiator element (8) and the ground plane.

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Fig. 2 accompanies this abstract.